

**SEQUENCE LISTING**

- 5 1). GENERAL INFORMATION  
i). NUMBER OF SEQUENCES :31  
2) INFORMATION FOR SEQ ID No.:1  
i).SEQUENCE CHARACTERISTICS:  
(A) LENGTH : 20 nucleotides  
10 (B) TYPE : nucleic acid  
(C) STANDARDNESS : single standard  
(D) TOPOLOGY : linear  
ii). MOLECULE TYPE : nucleic acid  
iii). HYPOTHETICAL : yes  
15 iv). ANTI-SENCE : no  
v). SEQUENCE DESCRIPTION : SEQ ID NO : 1:

ACT TAA GTT AGA GCG TTT GC 20

- 20 3) INFORMATION FOR SEQ ID No.:2  
i).SEQUENCE CHARACTERISTICS:  
(A) LENGTH : 20 nucleotides  
(B)TYPE : nucleic acid  
(C) STANDARDNESS : single standard  
25 (D) TOPOLOGY : linear  
ii). MOLECULE TYPE : nucleic acid  
iii). HYPOTHETICAL : yes  
iv). ANTI-SENCE : no  
v). SEQUENCE DESCRIPTION : SEQ ID NO : 2:

30

TGG TAG TAT GTG ATT TAG TC 20

- 4) INFORMATION FOR SEQ ID No.:3

## i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 40 nucleotides

(B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

5 (D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : yes

iv). ANTI-SENCE : no

v). SEQUENCE DESCRIPTION : SEQ ID NO : 3:

10

TAC ACT TAA GTT AGA GCG TTT GCG CCC ACT ACG ACG GTT G 40

## 5) INFORMATION FOR SEQ ID No.:4

## i).SEQUENCE CHARACTERISTICS:

15 (A) LENGTH : 44 nucleotides

(B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

(D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

20 iii). HYPOTHETICAL : yes

iv). ANTI-SENCE : no

v). SEQUENCE DESCRIPTION : SEQ ID NO : 4:

25

G TTT TTG TGG TAG TAT GTG ATT TAG TCA TTC AAC CGT CGT AGT G 44

## 6) INFORMATION FOR SEQ ID No.:5

## i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 20 nucleotides

(B) TYPE : nucleic acid

30 (C) STANDARDNESS : single standard

(D) TOPOLOGY : linear

ii). MOLECULE TYPE : other nucleic acid

- iii). HYPOTHETICAL : no
- iv). ANTI-SENCE : no
- v). MODIFICATION: FAM at base position 18
- v). SEQUENCE DESCRIPTION : SEQ ID NO : 5:

5

ACT TAA GTT AGA GCG TTT GC 20

## 7) INFORMATION FOR SEQ ID No.:6

## i).SEQUENCE CHARACTERISTICS:

- 10 (A) LENGTH : 19 nucleotides
- (B) TYPE : nucleic acid
- (C) STANDARDNESS : single standard
- (D) TOPOLOGY : linear

## ii). MOLECULE TYPE : nucleic acid

- 15 iii). HYPOTHETICAL : no
- iv). ANTI-SENCE : no
- v). MODIFICATION: no
- vi). ORGANISM : Leishmania donovani
- vi). SEQUENCE DESCRIPTION : SEQ ID NO : 6:

20

ACG GAG CGG CTG AAG GTG C 19

## 8) INFORMATION FOR SEQ ID No.:7

## i).SEQUENCE CHARACTERISTICS:

- 25 (A) LENGTH : 27 nucleotides
- (B) TYPE : nucleic acid
- (C) STANDARDNESS : single standard
- (D) TOPOLOGY : Hair-pin

## ii). MOLECULE TYPE : nucleic acid

- 30 iii). HYPOTHETICAL : no
- iv). ANTI-SENCE : no
- v). MODIFICATION: no

vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 7:

AGG TGC ATC CAC TTG TCC TGC ACC TGC 27

5

9) INFORMATION FOR SEQ ID No.:8

i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 21 nucleotides

(B) TYPE : nucleic acid

10 (C) STANDARDNESS : single standard

(D) TOPOLOGY : Hair-pin

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

15 v). MODIFICATION: no

vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 8:

AGG CAG ATG GCG CCT GCC TCG 21

20

10) INFORMATION FOR SEQ ID No.:9

i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 25 nucleotides

(B) TYPE : nucleic acid

25 (C) STANDARDNESS : single standard

(D) TOPOLOGY : Hair-pin

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

30 v). MODIFICATION: no

vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 9:

ATG CGG CGC TGT AGT ACC CCG CAT C 25

11) INFORMATION FOR SEQ ID No.:10

- 5 i).SEQUENCE CHARACTERISTICS:  
(A) LENGTH : 20 nucleotides  
(B) TYPE : nucleic acid  
(C) STANDARDNESS : single standard  
(D) TOPOLOGY : linear  
10 ii). MOLECULE TYPE : nucleic acid  
iii). HYPOTHETICAL : no  
iv). ANTI-SENCE : no  
v). MODIFICATION: no  
vi). ORGANISM : Leishmania donovani  
15 vi). SEQUENCE DESCRIPTION : SEQ ID NO : 10:

GGG GTA CTA CAG CGC CCT GA 20

12) INFORMATION FOR SEQ ID No.:11

- 20 i).SEQUENCE CHARACTERISTICS:  
(A) LENGTH : 28 nucleotides  
(B) TYPE : nucleic acid  
(C) STANDARDNESS : single standard  
(D) TOPOLOGY : Hair-pin  
25 ii). MOLECULE TYPE : nucleic acid  
iii). HYPOTHETICAL : no  
iv). ANTI-SENCE : no  
v). MODIFICATION: no  
vi). ORGANISM : Leishmania donovani  
30 vi). SEQUENCE DESCRIPTION : SEQ ID NO : 11:

ATG GCC ATG TCC TGG AAG ATG GCC ATG G 28

## 13) INFORMATION FOR SEQ ID No.:12

## i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 29 nucleotides

5 (B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

(D) TOPOLOGY : Hair-pin

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

10 iv). ANTI-SENCE : no

v). MODIFICATION: no

vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 12:

15 ATG GCC ATC GTC CTG GAA GAT GGC CAT GG 29

## 14) INFORMATION FOR SEQ ID No.:13

## i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 20 nucleotides

20 (B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

(D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

25 iv). ANTI-SENCE : no

v). MODIFICATION: no

vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 13:

30 GTC CTG GAA GAT GGC CAT GG 20

## 15) INFORMATION FOR SEQ ID No.:14

## i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 20 nucleotides

(B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

5 (D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

v). MODIFICATION: no

10 vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 14:

CTG CAC ACG GAG CGG CTG AA 20

15 16) INFORMATION FOR SEQ ID No.:15

## i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 20 nucleotides

(B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

20 (D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

v). MODIFICATION: no

25 vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 15:

GGA CGA GCT CAT GGC GCC TG 20

30 17) INFORMATION FOR SEQ ID No.:16

## i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 20 nucleotides

(B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

(D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

5 iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

v). MODIFICATION: no

vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 16:

10

GTC CTG TTC ACC TTC CAC TG 20

18) INFORMATION FOR SEQ ID No.:17

i).SEQUENCE CHARACTERISTICS:

15 (A) LENGTH : 19 nucleotides

(B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

(D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

20 iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

v). MODIFICATION: no

vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 17:

25

GCT CAT GGC GCC TGC CTC G 19

19) INFORMATION FOR SEQ ID No.:18

i).SEQUENCE CHARACTERISTICS:

30 (A) LENGTH : 19 nucleotides

(B) TYPE : nucleic acid

(C) STANDARDNESS : single standard



(D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

5 v). MODIFICATION: no

vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 18:

GCG TGT AGT ACC CCG CAT C 19

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20) INFORMATION FOR SEQ ID No.:19

i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 20 nucleotides

(B) TYPE : nucleic acid

15 (C) STANDARDNESS : single standard

(D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

20 v). MODIFICATION: FAM at base position 18

vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 19

GGG GTA CTA CAG CGC CCT GA 20

25

21) INFORMATION FOR SEQ ID No.:20

i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 20 nucleotides

(B) TYPE : nucleic acid

30 (C) STANDARDNESS : single standard

(D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

v). MODIFICATION: JOE at base position 18

vi). ORGANISM : Leishmania donovani

5 vi). SEQUENCE DESCRIPTION : SEQ ID NO : 20

GTC CTG GAA GAT GGC CAT GG 20

22) INFORMATION FOR SEQ ID No.:21

10 i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 18 nucleotides

(B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

(D) TOPOLOGY : linear

15 ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

v). MODIFICATION: FAM at base position 18

vi). ORGANISM : Leishmania donovani

20 vi). SEQUENCE DESCRIPTION : SEQ ID NO : 21

GGG GTA CTA CAG CGC CCT 18

23) INFORMATION FOR SEQ ID No.:22

25 i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 29 nucleotides

(B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

(D) TOPOLOGY : Hair-pin

30 ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

v). MODIFICATION: DABCYL at base 1 and JOE at base 27

vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 22

5       ATG GCC ATC GTC CTG GAA GAT GGC CAT GG 29

24) INFORMATION FOR SEQ ID No.:23

i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 29 nucleotides

10   (B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

(D) TOPOLOGY : Hair-pin

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

15   iv). ANTI-SENCE : no

v). MODIFICATION: DABCYL at base 1 and FAM at base 27

vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 23

20       ATG GCC ATC GTC CTG GAA GAT GGC CAT GG 29

25) INFORMATION FOR SEQ ID No.:24

i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 19 nucleotides

25   (B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

(D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

30   iv). ANTI-SENCE : no

v). MODIFICATION: DABCYL at base 17

vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 24

GCT CAT GGC GCC TGC CTC G 19

5 26) INFORMATION FOR SEQ ID No.:25

i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 20 nucleotides

(B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

10 (D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

v). MODIFICATION: Rhodamine at base 18

15 vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 25

GTC CTG GAA GAT GGC CAT GG 20

20 27) INFORMATION FOR SEQ ID No.:26

i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 20 nucleotides

(B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

25 (D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

v). MODIFICATION: JOE at base 12

30 vi). ORGANISM : Leishmania donovani

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 26

GTC CTG GAA GAT GGC CAT GG 20

28) INFORMATION FOR SEQ ID No.:27

i).SEQUENCE CHARACTERISTICS:

- 5 (A) LENGTH : 20 nucleotides
- (B) TYPE : nucleic acid
- (C) STANDARDNESS : single standard
- (D) TOPOLOGY : linear
- ii). MOLECULE TYPE : nucleic acid
- 10 iii). HYPOTHETICAL : no
- iv). ANTI-SENCE : no
- v). MODIFICATION: no
- vi). ORGANISM : E. coli
- vi). SEQUENCE DESCRIPTION : SEQ ID NO : 27

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TGA ATT CAA TCT CGC AAA CG 20

29) INFORMATION FOR SEQ ID No.:28

i).SEQUENCE CHARACTERISTICS:

- 20 (A) LENGTH : 26 nucleotides
- (B) TYPE : nucleic acid
- (C) STANDARDNESS : single standard
- (D) TOPOLOGY : linear
- ii). MOLECULE TYPE : nucleic acid
- 25 iii). HYPOTHETICAL : no
- iv). ANTI-SENCE : no
- v). MODIFICATION: no
- vi). ORGANISM : E. coli
- vi). SEQUENCE DESCRIPTION : SEQ ID NO : 28

30

ATC GGA TCC CAA ATG CCT GAG GCC AG 26

## 30) INFORMATION FOR SEQ ID No.:29

## i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 20 nucleotides

(B) TYPE : nucleic acid

5 (C) STANDARDNESS : single standard

(D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

10 v). MODIFICATION: no

vi). ORGANISM : E. coli

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 29

GGC AAT GAA AAG CCA CTT CT 20

15

## 31) INFORMATION FOR SEQ ID No.:30

## i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 20 nucleotides

(B) TYPE : nucleic acid

20 (C) STANDARDNESS : single standard

(D) TOPOLOGY : linear

ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

25 v). MODIFICATION: no

vi). ORGANISM : E. coli

vi). SEQUENCE DESCRIPTION : SEQ ID NO : 30

TTA ACC GGC GAT TGA GTA CC 20

30

## 32) INFORMATION FOR SEQ ID No.:31

## i).SEQUENCE CHARACTERISTICS:

(A) LENGTH : 20 nucleotides

(B) TYPE : nucleic acid

(C) STANDARDNESS : single standard

(D) TOPOLOGY : linear

5 ii). MOLECULE TYPE : nucleic acid

iii). HYPOTHETICAL : no

iv). ANTI-SENCE : no

v). MODIFICATION: no

vi). ORGANISM : E. coli

10 vi). SEQUENCE DESCRIPTION : SEQ ID NO : 31

AGC CTT ATG ACG TGC AGC TT 20

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